

Abstracts

A Quasi-Microstrip Traveling-Wave Power Divider/Combiner for Use in High-Density Packages

D. Willems, I. Bahl and B. Kruger. "A Quasi-Microstrip Traveling-Wave Power Divider/Combiner for Use in High-Density Packages." 1993 Microwave and Guided Wave Letters 3.5 (May 1993 [MGWL]): 148-149.

A low-loss miniature microstrip 4-way traveling-wave divider/combiner (TWD/C) that incorporates the package effects into the circuit design, i.e., the microstrip transmission line impedances partially includes the package wall as a ground plane, is presented. The TWD/C was designed using a full-wave electromagnetic simulator. Additionally, this TWD/C has less than a 0.3-dB insertion loss and a 1.6:1 VSWR at all ports over a 6-GHz bandwidth.

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